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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Technical drawings—Dimensioning and tolerancing—Non-rigid parts

Introduction This Japanese Industrial Standard has been prepared based on the first edition issued in 1993 of *ISO 10579 Technical drawings —Dimensioning and tolerancing—Non-rigid parts* without changing the technical contents.

The “References” underlined with a dotted line in this Standard are not included in the original International Standard.

Certain parts, when removed from their manufacturing environment, may deform significantly from their defined limits owing to their weight, flexibility or the release of internal stresses resulting from the manufacturing processes.

These parts are defined as “non-rigid parts” and the deformation is acceptable provided that the parts may be brought within the indicated tolerance by applying reasonable force to facilitate inspection and assembly.

Depending on the design function and the part’s interface with its mating components, instead of, or in addition to, assessing the part conventionally (in its free state condition), it may be necessary to assess the part when subject to restraint that is no greater than those accepted in the assembled condition.

Parts in this category include both those of inherently rigid material (such as thin metal parts) and those of inherently flexible material (such as rubber, plastics, etc.).

1 Scope This Japanese Industrial Standard gives rules for dimensioning and tolerancing non-rigid parts where restraining of features is required during verification of dimensions and tolerances specified on a drawing.

2 Normative reference The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. For this normative reference, the most recent edition (including amendment) shall apply.

JIS B 0021 *Geometrical product specifications (GPS)—Geometrical tolerancing—Tolerancing of form, orientation, location and run-out*

Remarks The provisions cited from **ISO 1101** : 1983, *Technical drawings—Geometrical tolerancing—Tolerances of form, orientation, location and run-out—Generalities, definitions, symbols, indications on drawings* are equivalent to the relevant provisions in the said standard.

3 Definitions For the purposes of this Standard, the following definitions apply.

3.1 non-rigid part Part which deforms to an extent that in the free state is beyond the dimensional and/or geometrical tolerances on the drawing.

3.2 free state Condition of a part subjected only to the force of gravity.